

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/003,725 Confirmation No. 2647

Applicants: **Stapleton** Filed: **October 30, 2001** 

TC/A.C.: 2817

Examiner: Choe, Henry Docket No.: BWD:2353.005

Title: HIGH EFFICIENCY POWER AMPLIFIER SYSTEMS AND METHODS

Customer No.: 23400

Date: January 23, 2004

#### Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Paterits and Trademarks, Washington, D.C. 20231 on

Kristi Green

### INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents P O Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56 and in compliance with 37 C.F.R. §§1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

#### I. COPIES

- a. A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.
- b. Any patents, publications or other information which are listed on PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the

PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. §120:

# U.S. Serial Number

U.S. Filing Date

II.	CONC	ISE EXPLANATION OF THE RELEVANCE (check at least one box)
	a. 🔀	Except as may be indicated below in (b) of this section, all of the patents,
		publications or other information are in the English language (concise
		explanation not required).
	b. 🗌	A concise explanation of the relevance of all patents, publications or other
		information listed that is not in the English language is as follows:
	c. 🗌	The following additional information is provided for the Examiner's
		consideration:
тт 🗀	CD CC	C DECEDENCE TO DEL ATED ADDI (CATIONIC)
Ш. [		S REFERENCE TO RELATED APPLICATION(S)
		xaminer is advised that the following co-pending application(s) contain(s)
	•	t matter that may be related to the present application. By bringing this
	` ′	applications to the Examiner's attention, Applicant(s) does(do) not waive
	the co	nfidentiality provisions of 35 U.S.C. §122.
	<u>Serial</u>	No. Filing Date Art Unit
		<u>FEES</u>
IV. 🛛	THIS	IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)
	a	within three months of the filing date of a national application (37 C.F.R.
		§1.97(b)(1)). No fee or statement is required.
	b	within three months of the date of entry of the national stage as set forth in §
		1.491 in an international application (37 C.F.R. §1.97(b)(2)). No fee or
		statement is required.
	c. 🗌	before the mailing date of a first Office Action on the merits (37 C.F.R.
		§1.97(b)(3)). No fee or statement is required.
	$d. \boxtimes$	In the event that a first Office Action on the merits has been issued, please
		consider this IDS under 37 C.F.R. §1.97(c) and see the statement under 37
		C.F.R. §1.97(e) provided below, or if no statement has been made, charge
		deposit account 50-1147 the fee set forth in 37 C.F.R. §1.17(p).

V. 🛛	THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)		
	before the mailing date of either a Final Office Action under 37 C.F.R. §1.113 (See		
	37 C.I	F.R. §1.97(c)), or a Notice of Allowance under 37 C.F.R. §1.311 (See 37	
		§1.97(c)).	
	а. П	No statement; therefore, charge deposit account <b>50-1147</b> the fee set forth in	
	_	37 C.F.R. §1.17(p).	
	b. 🖂	See the statement below. No fee is required.	
VI.	THIS	IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):	
	on or b	pefore payment of the issue fee and is accompanied by the following:	
	1)	a statement under 37 C.F.R. §1.97(e) as provided below;	
	2)	Applicant(s) hereby a petition for consideration of this information	
	,	disclosure statement; and	
	3)	charge deposit account 50-1147 the petition fee set forth in §1.17(i).	
VII.	Statem	nent under 37 C.F.R. §1.97(e) (check only one box, if applicable)	
		ndersigned hereby states that	
	a.	each item of information contained in the IDS was cited in a	
		communication from a foreign Patent Office is a counterpart foreign	
		application not more than three months prior to the filing of IDS; or	
	b.🖂	no item of information contained in the IDS was cited in a communication	
	0.67	from a foreign Patent Office in a counterpart foreign application, and to	
		knowledge of the person signing the statement after making reasonable	
		inquiry, no item of information contained in the IDS was known to any	
		individual designated in 37 C.F.R. 1.56(c) more than three months prior to	
		the filing of this statement, or	
	c.	some of the items of information contained in the IDS were cited in a	
	с. <u> </u>	communication from a foreign Patent Office. As to this information, the	
		undersigned states that each item of information contained in the IDS was	
		cited in a communication from a foreign Patent Office in a counterpart	
		foreign application not more than three months prior to the filing of this	
		IDS. As to the remaining information, the undersigned hereby states that no	
		item of this remaining information contained in the IDS was cited in a	
		communication from a foreign Patent Office in a counterpart foreign	
		application or, to the knowledge of the person signing the statement after	
		making reasonable inquiry, no item of information contained in the IDS was	

known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

VШ.	PAYM	ENT (	OF I	FEES

	A check in the amount of is enclosed for the above-identified
	fee(s).
	Please charge Deposit Account No. 50-1147 in the amount of \$
	for the above-indicated fee(s).
$\boxtimes$	If Applicant has overlooked any additional fees, or if any overpayment has
	been made, the Commissioner is hereby authorized to credit or debit
	Deposit Account 50-1147.

The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-1147.

Respectfully submitted,

Chali W. Bethard

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			Page 1 of
ATTY. DKT	BWD:2353.005/34-001	SER. NO.	10/003,727
APPLICANT	Stapleton		
FILING DAT	October 30, 2001	GROUP	

## REFERENCE DESIGNATION

PTO-1449

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	AA	5,352,986	October 4, 1994	Modgil et al	330/10	330/107
	AB	4,843,339	June 27, 1989	Burt et al	330/10	328/151
	AC	6,373,334 B1	April 16, 2002	Melanson	330/10	330/207
	AD	6,630,899 B2	October 7, 2003	Jayaraman	341/200	330/151
	AE	6,577,189 B2	June 10, 2003	Jayaraman etal	330/107	330/10
	AF	5,777,512	July 7, 1998	Tripathi et al	330/207A	330/110
	AG	6,191,653	February 20, 2001	Camp,Jr.et al	330/129	330/10

# OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	АН	Dallago, Single-Cycle Quasi-Resibabt Converters as Sigma-Delta Audio Power Stages, IEEE June 1996, pp 645-650.		
		Anderson, A NEW APPLICATION FOR ZERO-CURRENT-SWITCHED FULL-WAVE RESONANT		
	AI	CONVERTERS, European Power Electronics Ass. 1993, pp 83-86.		
	AJ	Luckjiff, Dobson, Divan, Interpolative Sigma Delta Modulators for High Frequency Power Electronic Applications, IEEE June 18, 1995, pp 444-449.		
	AK	Ballan, Declercq, 12V Σ-Δ AMPLIFIER IN 5V CMOS TECHNOLOGY, IEEE 1995 Custom Integrated Circuits Conference, pp 26.5.1-26.54		
	AL	Opris & Kovacs, A Video bandwidth Analog Median Circuit, IEEE 1995 Custom Integrated Circuits Conference, pp 26.4.1-26.4.4		
EXAMINER		DATE CONSIDERED		
Pev 10/04 (Fo	2.05			

Rev. 10/94 (Form 3.05)